Amendments to the claims:

1. (Currently Amended) A cell sample comprising cells transfected with a library of nucleic acid constructs, each construct comprising:

a cis element sequence comprising one or more copies of a cis element to which a transcription factor is known to bind, the cis element sequence varying within the library of nucleic acid constructs;

a promoter sequence 3' relative to the cis element sequence; and

a reporter sequence 3' relative to the promoter sequence, the reporter sequence comprising a variable sequence that varies within the library of nucleic acid constructs;

wherein each cis element sequence corresponds to a given reporter sequence within the library of nucleic acid constructs, and the cells transcribe the reporter sequences as mRNA when a transcription factor binds to the cis element and induces expression.

2. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the reporter sequences comprise priming sequences 5' and 3' relative to the variable sequences.

3. (Currently Amended) ~~A library~~ The cell sample according to claim 2 wherein the 5' and 3' priming sequences are conserved within the library.

4. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the library comprises at least 10 different cis elements.

5. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the library comprises at least 20 different cis elements.

6. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the library comprises at least 50 different cis elements.

7. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the library comprises at least 100 different cis elements.

8. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the cis element sequence comprises at least two copies of the cis element.

9. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the cis element sequence comprises at least three copies of the cis element.

10. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the cis element sequence comprises at least four copies of the cis element.

11. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein an individual copy of the cis element has a length between about 5 and 100 base pairs.

12. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein an individual copy of the cis element has a length between about 5 and 75 base pairs.

13. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein an individual copy of the cis element has a length between about 5 and 50 base pairs.

14. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the variable sequence of the reporter sequence is at least 15 bases in length.

15. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the variable sequence of the reporter sequence is at least 25 bases in length.

16. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the variable sequence of the reporter sequence is at least 50 bases in length.

17. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the variable sequence of the reporter sequence is between 15 and 2000 bases in length.

18. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the variable sequence of the reporter sequence is between 25 and 2000 bases in length.

19. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the variable sequence of the reporter sequence is between 50 and 2000 bases in length.

20. (Currently Amended) ~~A library~~ The cell sample according to claim 1 wherein the different reporter sequences encode different reporter proteins.

21. (Currently Amended) ~~A library~~ The cell sample according to claim 20 wherein the reporter sequence is in an open reading frame relative to the promoter sequence.

22. (Currently Amended) ~~A library~~ The cell sample according to claim 21 wherein the reporter sequence comprises a stop codon 3' relative to sequence encoding reporter protein.

23-80. (Canceled)